### INTERNATIONAL SEARCH REPORT

GB2004/001172

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F04B33/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

#### EPO-Internal

Category "	CHAIS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Calegory	Challen of Coolineri, Initi Malecatory, Initio appropriately at the control and an arrangement of the control and arrangement of the control arrangement of the control arrangement of the	
χ	DE 202 12 893 U (HEPFNER HARRY) 6 February 2003 (2003-02-06)	1,2,4-6
Y	abstract; figures 1,2 page 6, line 9 - page 6, line 21	3
X	US 4 842 290 A (ALIOTO KEVIN J) 27 June 1989 (1989-06-27)	1-6
Υ	abstract; figures column 3, line 35 — column 3, line 39	1,3
χ	US 5 499 858 A (HER JERN-SHONG) 19 March 1996 (1996-03-19)	1-6
Υ	abstract; figures	1
X	US 5 137 430 A (ALIOTO KEVIN J) 11 August 1992 (1992-08-11) column 4, line 17 - column 4, line 23; figures	1
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of clted documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filling date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  9 November 2004	Date of malling of the international search report  17/11/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentiaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer Pinna, S

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Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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